

The Sicomat logo features the word "Sicomat" in a blue, sans-serif font. The letter "S" is stylized, with a green circle around its middle and a white outline. The background of the entire page is a green-tinted image of a large tire tread and a warehouse interior with metal shelving.

Sicomat

PIPES AND FITTINGS FOR NITROGEN

The SicoAZOTE product line is shown with various green and black plastic fittings and pipes. The fittings include elbows, tees, and end caps. The pipes are shown in two sizes, one larger and one smaller. The background is a green-tinted image of a large tire tread and a warehouse interior with metal shelving.

SicoAZOTE

PIPES AND FITTINGS FOR NITROGEN



Sicomat



Solid experience in compressed air distribution with **SicoAIR** has led to the development of the **SicoAZOTE** line. Ideal for nitrogen distribution, widely used in car repair workshops and in assembly lines, the **SicoAZOTE** system consists of two sets of pipes and fittings: 40 mm diameter for the main distribution lines and 25 mm diameter for the standard distribution lines.

The RAL 6018 coating of pipes and tightening coupling rings easily distinguishes them from the other fluids distribution networks avoiding any technical coating process at the time of installation.

The calibrated pipes combined with nylon fittings ensure a safe and reliable seal with pressure rating PN 12.5



Dall'esperienza maturata nel trasporto e nella distribuzione dell'aria compressa con il collaudato sistema **SicoAIR**, nasce la linea **SicoAZOTE**. Ideale per il trasporto dell'azoto, ampiamente utilizzato nelle auto-officine e nelle linee di montaggio, il sistema **SicoAZOTE** è composto da due serie di tubi e raccordi: diametro 40 mm per le linee principali di distribuzione e diametro 25 mm per le calate e per le linee di distribuzione standard.

La colorazione RAL 6018 dei tubi e delle ghiera di serraggio rende le linee facilmente distinguibili dalle altre reti di distribuzione di fluidi tecnici evitando qualunque lavorazione di verniciatura dei condotti al momento del montaggio. I tubi calibrati uniti ai raccordi in nylon garantiscono una tenuta sicura e affidabile con pressione nominale PN 12.5



De la experiencia adquirida en el transporte y en la distribución de aire comprimido con el probado sistema **SicoAIR** nace la línea **SicoAZOTE**. Siendo ideal para el transporte de nitrógeno, muy utilizado en los talleres de coches y en las líneas de montaje, el sistema **SicoAZOTE** consta de dos series de tubos y racores: diámetro de 40 mm para las líneas de distribución principales y diámetro de 25 mm para las bajadas y las líneas de distribución estándar.

El color RAL 6018 de los tubos y de las tuercas de apriete facilita la distinción de estas líneas de las demás redes de distribución de fluidos técnicos, sin necesidad de realizar ningún trabajo de pintura de los conductos al efectuar el montaje. Los tubos calibrados unidos a los racores de nylon garantizan una estanqueidad segura y fiable con presión nominal PN 12.5



Résultat de l'expérience acquise dans l'acheminement et la distribution d'air comprimé avec le système **SicoAIR** qui n'a plus à faire ses preuves, voici naître **SicoAZOTE**. L'idéal pour le transport de l'azote, largement employé dans les garages et sur les lignes d'installation, le système **SicoAZOTE** est composé de deux séries de tubes et de raccords : d'un diamètre de 40 mm pour les lignes principales de distribution et d'un diamètre de 25 mm pour les descentes et pour les lignes de distribution standard.

La coloration RAL 6018 des tubes et des écrous griffes permet de distinguer immédiatement les lignes des autres lignes de distribution de fluides techniques, évitant ainsi le besoin de peindre les conduits par la suite, au moment de l'installation. Les tubes calibrés alliés aux raccords en nylon assurent une tenue sécurisée et fiable à une pression nominale d'exercice PN 12.5



Aus der in der Beförderung und Verteilung von Druckluft mit dem geprüften **SicoAIR** System gereiften Erfahrung entstand **SicoAZOTE**. Das **SicoAZOTE** System ist ideal für die Stickstoffverteilung und findet große Verwendung in Autowerkstätten und in der Fließbandfertigung. Es besteht aus zwei Serien von Rohren und Anschlüssen: 40 mm Durchmesser für Hauptverteilungsleitungen 25 mm Durchmesser für die Stichleitungen und für die Standardverteilungsleitungen.

Die RAL 6018 Einfärbung der Rohre und der Befestigungsringmuttern macht die Leitungen leicht von den anderen Flüssigkeitsverteilungsnetzen unterscheidbar und vermeidet jede Lackierung der Leitungen zum Zeitpunkt der Montage. Die mit den Nylonanschlüssen verbundenen kalibrierten Rohre gewährleisten einen sichere und zuverlässige Dichtigkeit bei einem Nenndruck von 12.5

NITROGEN DISTRIBUTION

DISTRIBUZIONE AZOTO DISTRIBUCIÓN DE NITRÓGENO DISTRIBUTION D'AZOTE STICKSTOFFVERTEILUNG



SicoAZOTE

SPECIFICATIONS

PIPES/TUBI/TUBOS/TUBES/ROHRE

- Material/Materiale/Material/Matériau/Material:
ALUMINIUM EN AW-6060 T6 ALLUMINIO EN AW-6060 T6 - ALUMINIO EN AW-6060 T6 - ALUMINIUM EN AW-6060 T6 - ALUMINIUM EN AW-6060 T6
- Treatment/Trattamento/Tratamiento/Traitement/Behandlung:
FLUOTITANATION FLUOTITANAZIONE - FLUOTITANACIÓN - TRAITEMENT À L'ACIDE FLUOTITANIQUE - FLUO-TITANISIERUNG
- Coating/Verniciatura/Pintura/Vernissage/Lackierung:
RAL 6018 ELECTROSTATIC COATING
- Use/Utilizzo/Uso/Utilisation/Verwendung:
NITROGEN AZOTO - NITRÓGENO - AZOTE - STICKSTOFF
- Pipes length/Lunghezza tubi/Longitud de los tubos/Longueur des tubes/Rohrlänge:
4 m - 6 m
- Pipe quality/Qualità tubo/Calidad del tubo/Qualité du tube/Rohrqualität:
CALIBRATED EXTRUSION ESTRUSIONE CALIBRATA - EXTRUSIÓN CALIBRADA - EXTRUSION CALIBRÉE - KALIBRIERTE EXTRUSION
- Temperature/Temperatura di utilizzo/Temperatura de uso /Température d'utilisation/Gebrauchstemperatur:
-20°C +70°C
- Pressure/Pressione/Presión/Pression/Druck:
-0.8 +15 BAR
- Compatible fluids/Fluidi compatibili/Fluidos compatibles/Fluides compatibles/Kompatible Medien:
COMPRESSED AIR-VACUUM-NITROGEN
ARIA COMPRESSA-VUOTO-AZOTO - AIRE COMPRIMIDO-VACÍO-NITRÓGENO - AIR COMPRIMÉ-VIDE-AZOTE - DRUCKLUFT-VAKUUM-STICKSTOFF

FITTINGS/RACCORDI/RACORES/RACCORDS/VERBINDER

- Body/Corpo/Cuerpo/Corps/Körper:
BLACK NYLON NYLON NERO - NYLON NEGRO - NYLON NOIR - SCHWARZES NYLON
- Coupling ring/Ghiera/Tuerca/Écrou griffes/Mutter:
GREEN NYLON NYLON VERDE - NYLON VERDE - NYLON VERT - GRÜNES NYLON
- Ring/Anello di graffaggio/Anillo de sujeción/Griffe/Haltering:
AISI 301 STAINLESS STEEL ACCIAIO INOX AISI 301 - ACERO INOXIDABLE AISI 301 - ACIER INOXYDABLE AISI 301 - EDELSTAHL AISI 301
- Sealing/Tenuta/Retención/Étanchéité/Dichtung:
NBR O-RING
- Temperature/Temperatura di utilizzo/Temperatura de uso/Température d'utilisation/Gebrauchstemperatur:
-20°C +70°C
- Pressure/Pressione/Presión/Pression/Druck:
-0.6 +12.5 BAR
- Compatible fluids/Fluidi compatibili/Fluidos compatibles/Fluides compatibles/Kompatible Medien:
COMPRESSED AIR-VACUUM-NITROGEN
ARIA COMPRESSA-VUOTO-AZOTO - AIRE COMPRIMIDO-VACÍO-NITRÓGENO - AIR COMPRIMÉ-VIDE-AZOTE - DRUCKLUFT-VAKUUM-STICKSTOFF

THE SYSTEM

- **EASY AND RAPID INSTALLATION** FACILE E VELOCE DA INSTALLARE - FÁCIL Y RÁPIDO DE INSTALAR - FACILE ET RAPIDE À INSTALLER - LEICHT UND EINFACH ZU INSTALLIEREN
- **REDUCED PRESSURE DROP** POCHISSIME PERDITE DI CARICO - MUY POCAS PÉRDIDAS DE CARGA - TRÈS PEU DE PERTES DE CHARGE - SEHR GERINGE DRUCKVERLUSTE
- **CORROSION RESISTANCE** NESSUNA CORROSIONE - NINGUNA CORROSIÓN - AUCUNE CORROSION - KEINE KORROSION
- **REUSABLE** RIUTILIZZABILE - REUTILIZABLE - RÉUTILISABLE - WIEDERVERWENDBAR
- **FIRE-RESISTANT** RESISTENTE AL FUOCO - RESISTENTE AL FUEGO - RÉSISTE AU FEU - FEUERBESTÄNDIG
- **UV-RESISTANT** RESISTENTE AI RAGGI UV - RESISTENTE A LOS RAYOS UV - RÉSISTE AUX RAYONS UV - UV-STRAHLEN-BESTÄNDIG
- **GOOD SHOCK RESISTANCE** BUONA RESISTENZA ALLO SHOCK - BUENA RESISTENCIA A LOS GOLPES - ANTICHOC - HOHE STOSSFESTIGKEIT
- **NO WELDING** NESSUNA SALDATURA NEL MONTAGGIO - NINGUNA SOLDADURA EN EL MONTAJE - PAS DE SOUDAGE DURANT L'INSTALLATION - KEIN SCHWEISSEN BEI DER MONTAGE

NITROGEN

DISTRIBUZIONE AZOTO DISTRIBUCIÓN DE NITRÓGENO DISTRIBUTION D'AZOTE STICKSTOFFVERTEILUNG

CUTTING

TAGLIO CORTE DÉCOUPE SCHNITT

Obtain a clean cut with a pipe-cutter

Con il tagliatubi fare un taglio netto

Haga un corte limpio con el cortatubos

Faire une découpe nette avec un coupe tube

Mit dem Rohrschneider einen glatten Schnitt machen



CHAMFERING

SMUSSO CHAFLÁN CHANFREIN ABSCHRÄGUNG

External pipe chamfer to avoid damage to the sealing ring

Smussare il tubo per non rovinare l'anello di tenuta

Escarife el tubo para no estropear el anillo de retención

Chanfreiner le tube pour ne pas abîmer l'entretoise joint

Das Rohr entgraten, um den Dichtring nicht zu beschädigen



ASSEMBLY

MONTAGGIO MONTAJE INSTALLATION MONTAGE

Insert the pipe and push it all the way down into its seat

Spingere il tubo nel raccordo fino a battuta

Empuje el tubo hasta el fondo del racor

Pousser le tube dans le raccord jusqu'à ce qu'il soit en butée

Das Rohr bis zum Anschlag in den Verbinder schieben



TIGHTENING

SERRAGGIO APRIETE SERRAGE BEFESTIGUNG

Tighten the coupling ring using the specific tool

Avvitare la ghiera con apposita chiave per raccordi

Enrosque la tuerca con la llave para racores

Visser l'écrou griffes avec la clé spéciale pour raccords

Die Mutter mit dem entsprechenden Schlüssel für

Verbinder einschrauben



DISTRIBUTION

ALUMINIUM PIPES FOR NITROGEN

PRIMARY ALUMINIUM EXTRUDED PIPES **EN AW-6060 T6 (AL Mg Si 0.5)**

ELECTROSTATIC PAINTING **RAL 6018**

CHEMICAL COMPOSITION

Alloy	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al
6060	0.10	0.10-0.30	0.10	0.35-0.6	0.3-0.6	0.15	0.05	0.10	Rest

SPECIFIC WEIGHT **2.70 Kg/dm³**

MINIMUM MECHANICAL SPECIFICATIONS

Alloy	Ultimate tensile stress	Yield point	A % Stretch	HB Hardness
6060	R _m 215 N/mm ²	R _{p0.2} 160 N/mm ²	8	75

ELASTIC MODULUS **69.000 N/mm²**

EXPANSIVITY **20-100°Cx10⁻⁶/°C**

RESISTIVITY ELECTRIC **0.033 mm²/m**

INTERNAL CHROMATIZING

THERMAL CONDUCTIVITY **210 W/mk**

MELTING TEMPERATURE **615° C-655° C**

CALIBRATED EXTRUSION

Size	7 bar delivery	Code
Ø25 x 22	2,727 L/min.	059.025.022V
Ø40 x 37	10,054 L/min.	059.040.037V

Ø25 mm

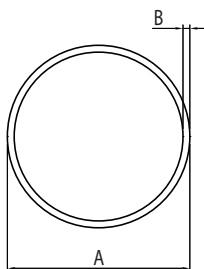
Ø40 mm

C A L I B R A T E D

CALIBRATI / CALIBRADOS / CALIBRÉS / KALIBRIERT

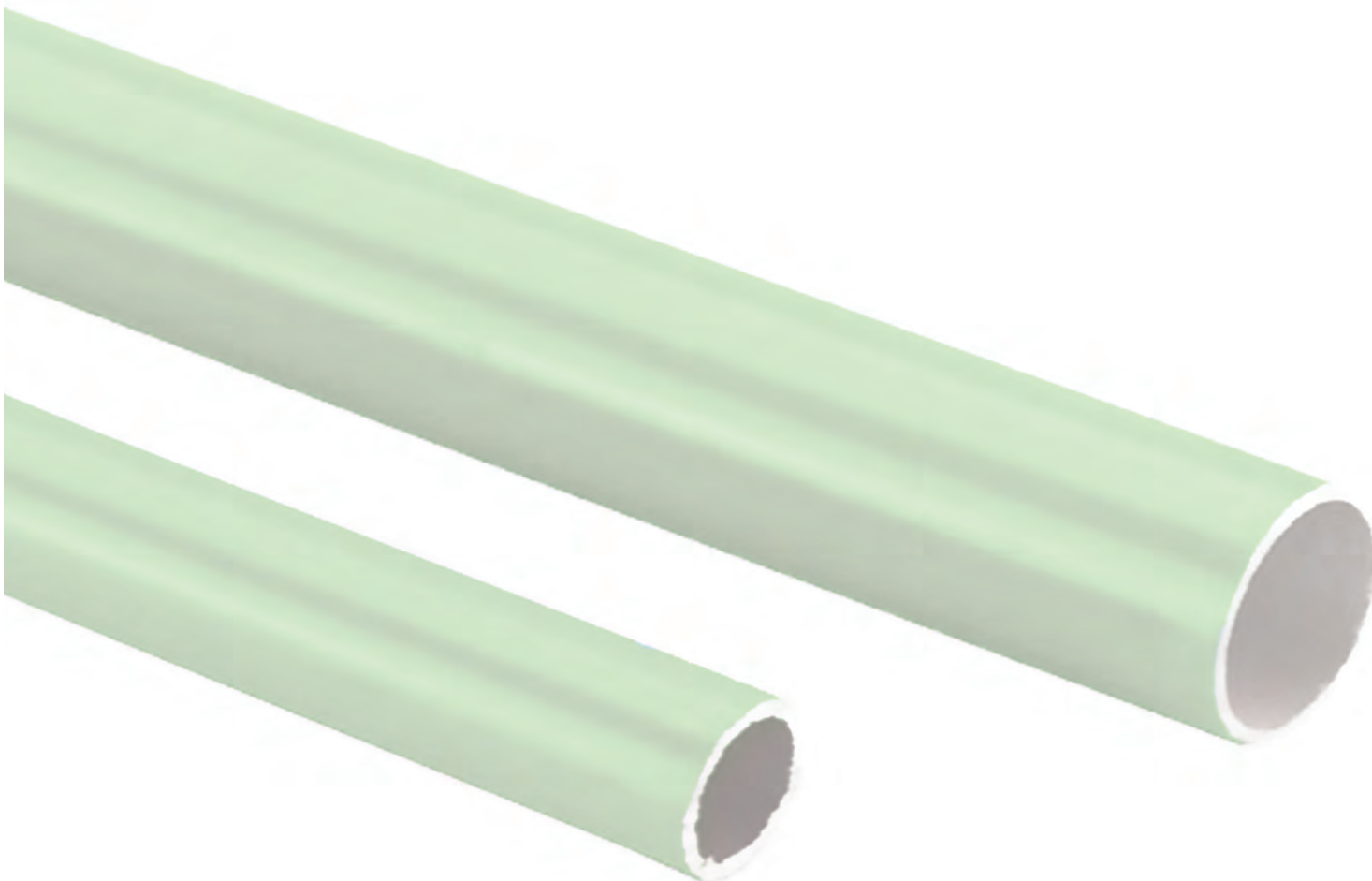
ALUMINIUM PIPE

TUBO IN ALLUMINIO
TUBO DE ALUMINIO
TUBE EN ALUMINIUM
ALUMINIUMROHR



Code	A	B	Length	(Kg/m)
059.025.022V	25	1,5	4 m	0,27
059.040.037V	40	1,5	4 m	0,46
059.025.022-6V	25	1,5	6 m	0,27
059.040.037-6V	40	1,5	6 m	0,46

Green powder-coated aluminium / Alluminio verniciato verde
Aluminio pintado de verde / Aluminium peint en vert / Grün lackiertes Aluminium
Ral 6018

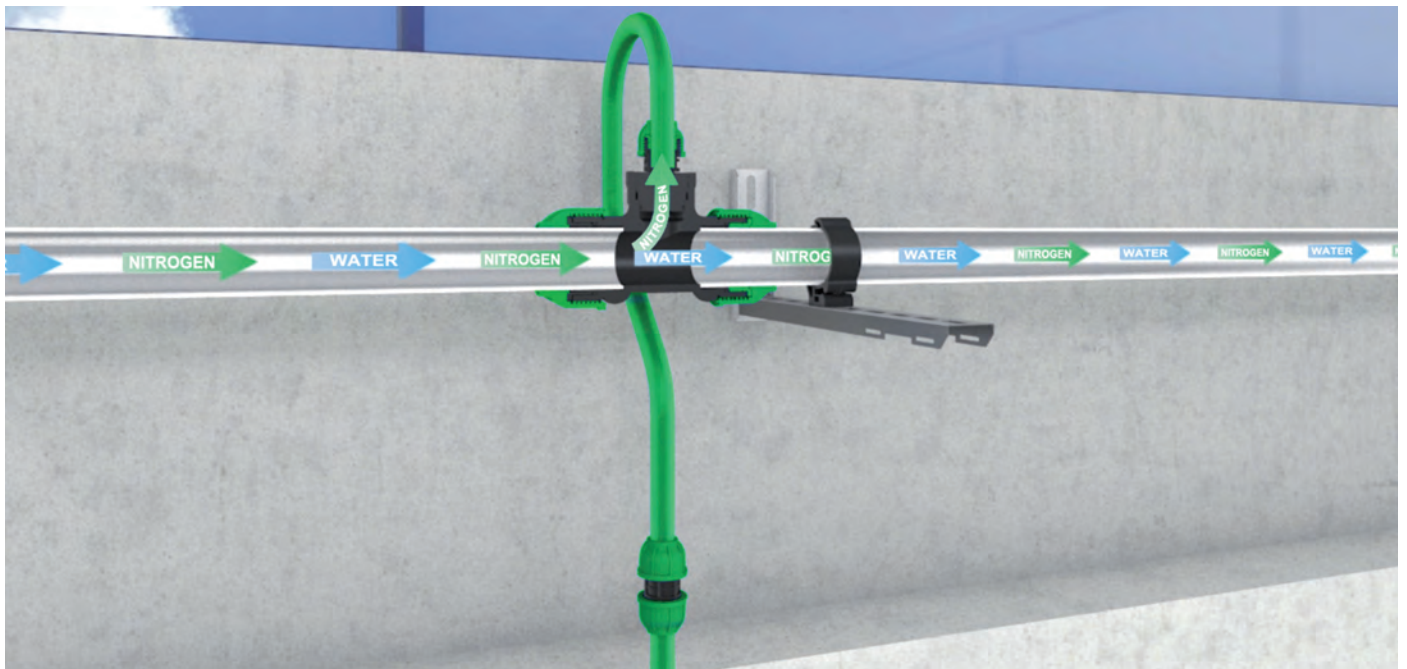
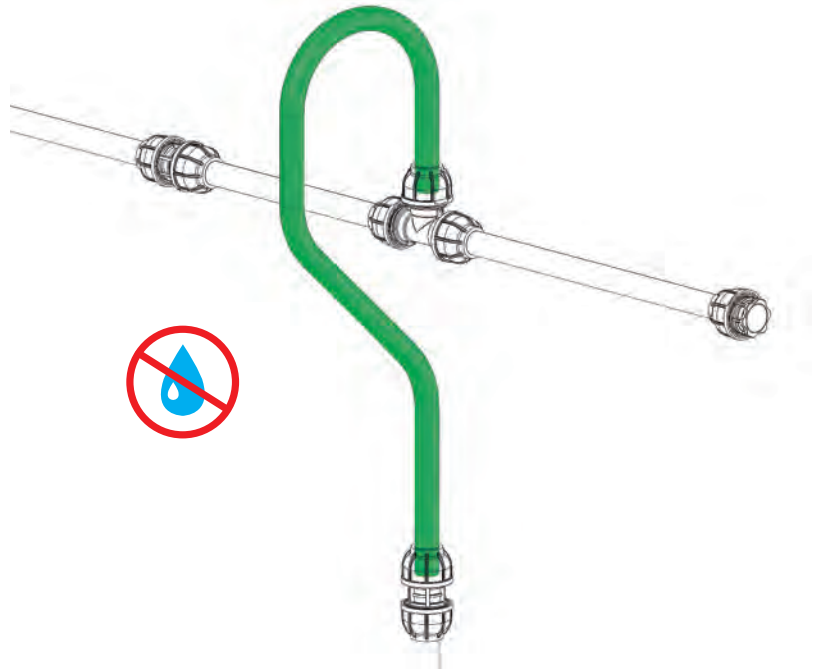
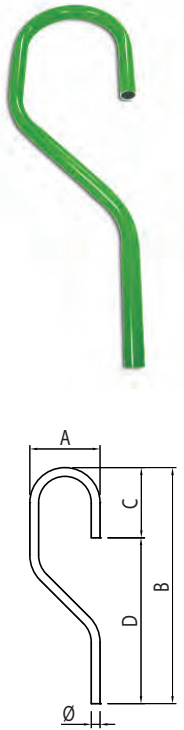


DROP BENDS

CURVE DI CALATA
CURVAS DE BAJADA
TUBES PREFORMÉS
SCHWANENHALS-ROHRBOGEN

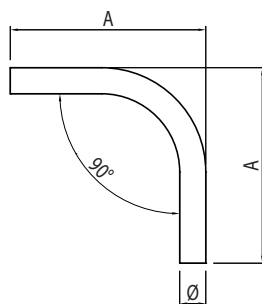
Code	Ø	A	B	C	D	(g)
059.025.100V	25	195	600	195	405	267

Green powder-coated aluminium / Alluminio verniciato verde
Aluminio pintado de verde / Aluminium peint en vert / Grün lackiertes Aluminium
Ral 6018



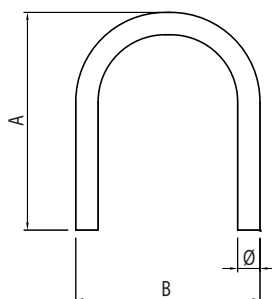
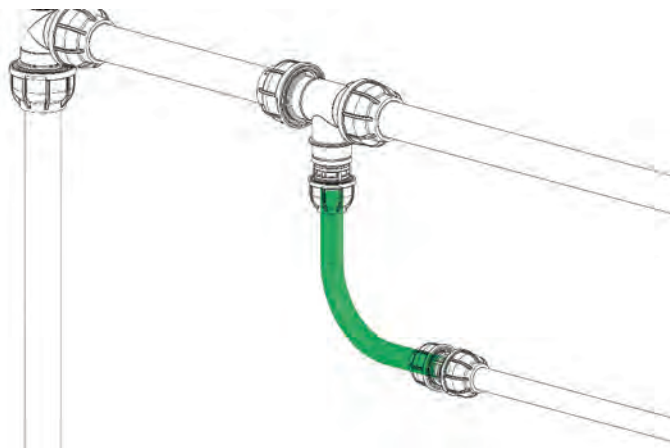
BEND PREFORMED PIPES

CURVE SPECIALI
CURVAS ESPECIALES
COUDES SPÉCIAUX
SPEZIALE-FORMTEILE



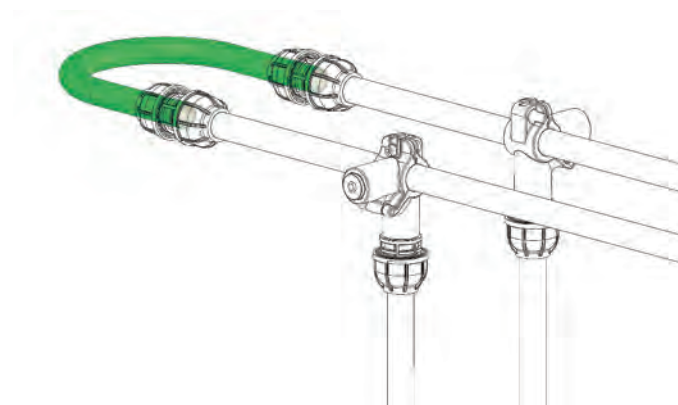
Code	Ø	A				(g)
059.025.101V	25	160				86

Green powder-coated aluminium / Alluminio verniciato verde
Aluminio pintado de verde / Aluminium peint en vert / Grün lackiertes Aluminium
Ral 6018



Code	Ø	A	B			(g)
059.025.102V	25	215	200			165

Green powder-coated aluminium / Alluminio verniciato verde
Aluminio pintado de verde / Aluminium peint en vert / Grün lackiertes Aluminium
Ral 6018

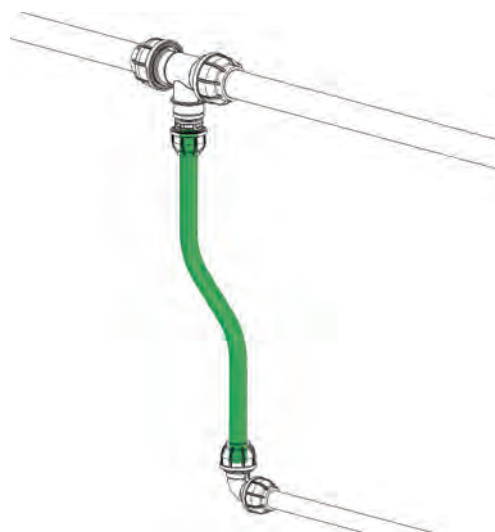
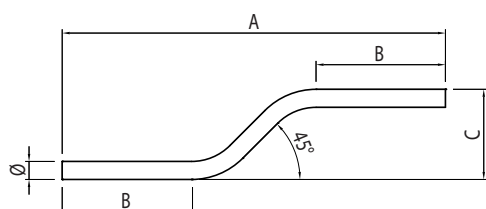


BEND PREFORMED PIPES

CURVE SPECIALI
CURVAS ESPECIALES
COUDES SPÉCIAUX
SPEZIALE-FORMTEILE

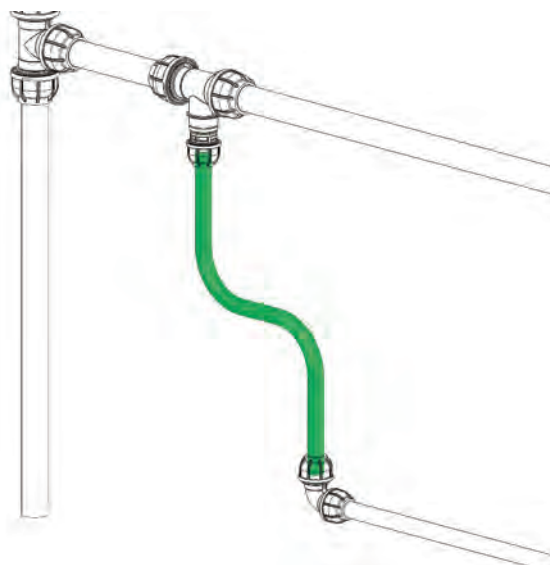
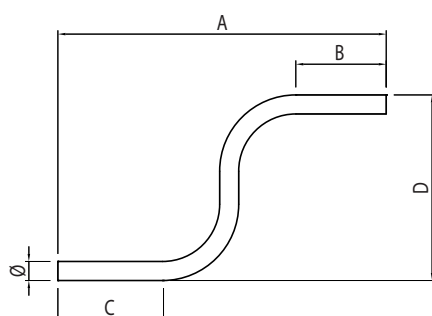
Code	Ø	A	B	C		(g)
059.025.103V	25	470	150	125		160

Green powder-coated aluminium / Alluminio verniciato verde
Aluminio pintado de verde / Aluminium peint en vert / Grün lackiertes Aluminium
Ral 6018



Code	Ø	A	B	C	D	(g)
059.025.104V	25	460	150	150	240	165

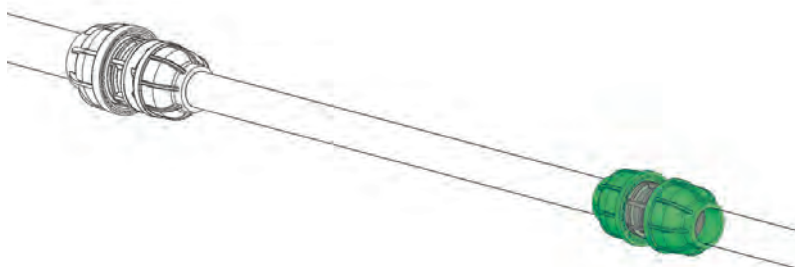
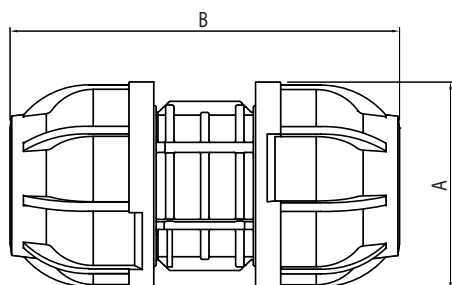
Green powder-coated aluminium / Alluminio verniciato verde
Aluminio pintado de verde / Aluminium peint en vert / Grün lackiertes Aluminium
Ral 6018



STRAIGHT FITTING

MANICOTTO GIUNZIONE DIRITTO
MANGUITO DE UNIÓN RECTO
MANCHON JONCTION DROIT
GERADER VERBINDER

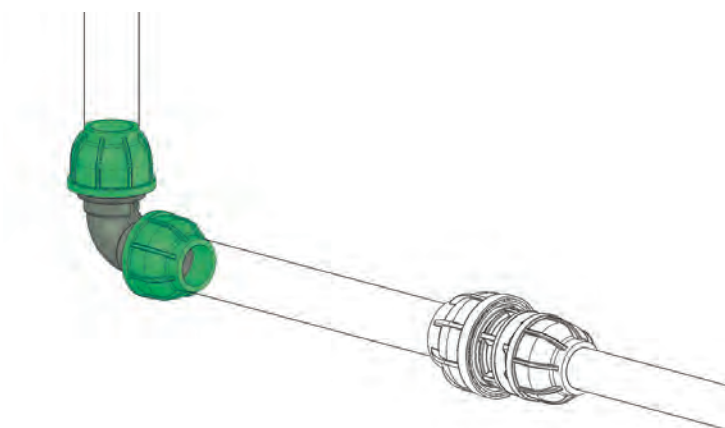
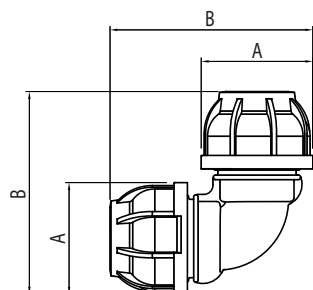
Code	Ø	A	B				(g)
A210.025.025	25x25	52	97		5	90	97
A210.040.040	40x40	72	129		1	35	215



90° ELBOW FITTING

RACCORDO GIUNZIONE 90°
CODO 90°
COUDE ÉGAL 90°
WINKEL 90°

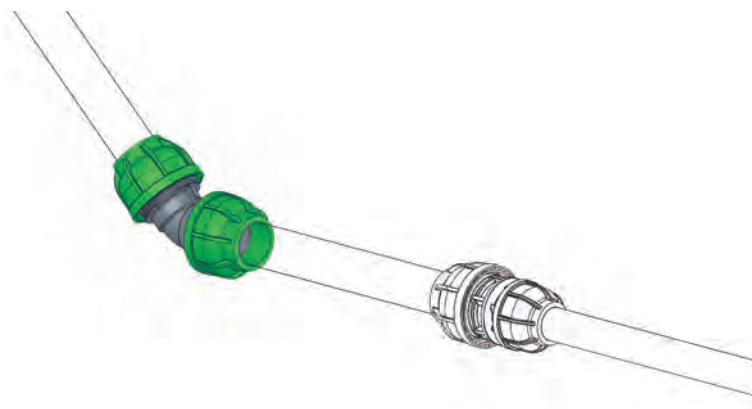
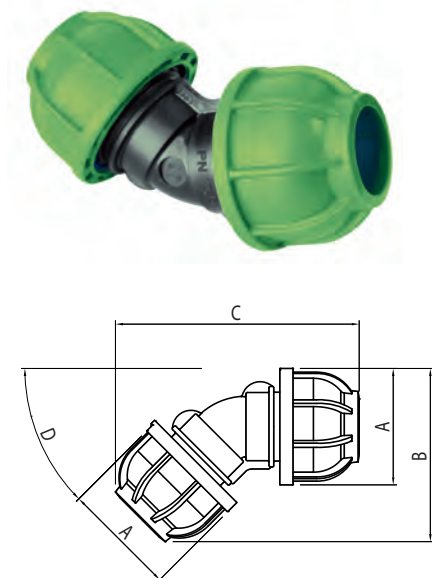
Cod.	Ø	A	B				(g)
A213.025.025	25x25	52	92		5	70	106
A213.040.040	40x40	72	127,50		1	30	243



45° ELBOW FITTING

RACCORDO A GOMITO 45°
CODO 45°
COUDE ÉGAL 45°
WINKEL 45°

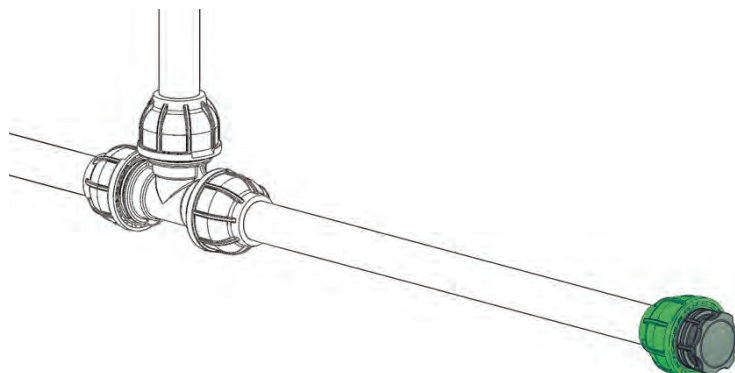
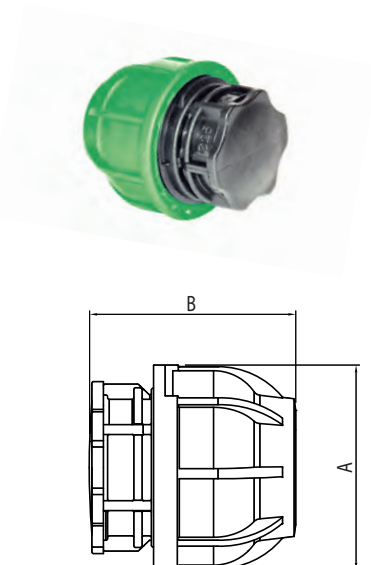
Code	Ø	A	B	C	D			(g)
A245.025.025	25x25	52	80	114	45°	5	70	110
A245.040.040	40x40	72	109	151	45°	1	30	245



END CAP

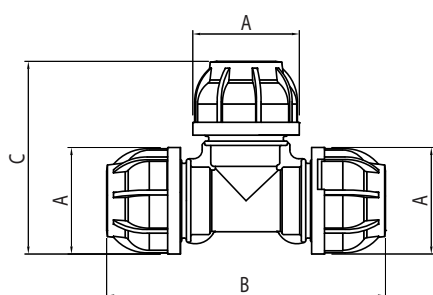
TAPPO
TAPÓN
BOUCHON
ENDSTOPFEN

Cod.	Ø	A	B				(g)
A221.025.000	25	52	53,50		5	170	54
A221.040.000	40	72	68,50		1	70	120

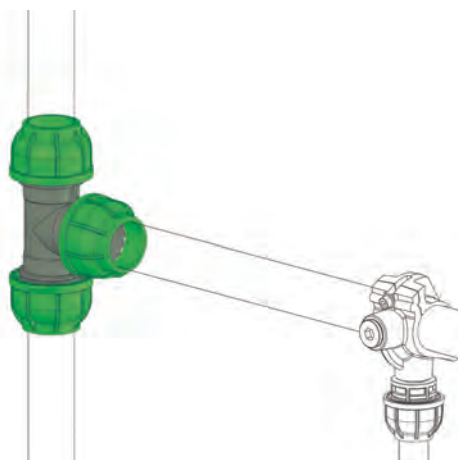


"TEE" FITTING

RACCORDO "T" PARI
RACOR "T" IGUAL
RACCORD EN "T"
T-STÜCK

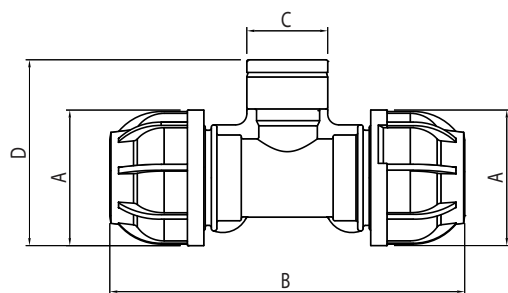


Code	Ø	A	B	C				(g)
A214.025.000	25x25x25	52	132	93,50		5	40	155
A214.040.000	40x40x40	72	182	127,50		1	18	367

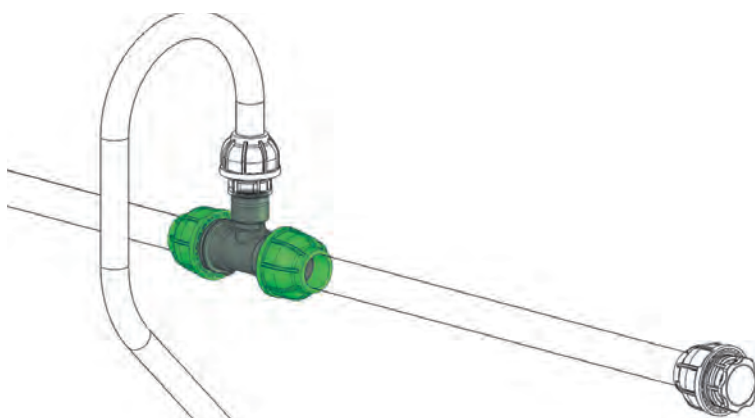


FEMALE "TEE" FITTING

RACCORDO "T" FEMMINA
RACOR "T" HEMBRA
RACCORD EN "T" FEMELLE
T-STÜCK MIT INNENGEWINDE

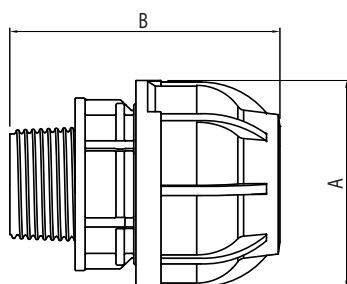


Code	Ø	A	B	C	D			(g)
A215.025.012	25x1/2"x25	52	132	30	75	5	60	118
A215.040.001	40x1"x40	72	182	43	103	1	20	300

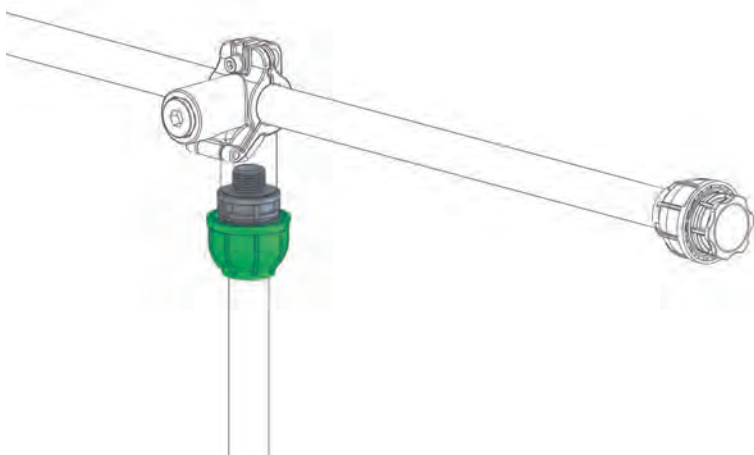


STRAIGHT MALE FITTING

RACCORDO DIRITTO MASCHIO
RACOR RECTO MACHO
RACCORD DROIT MÂLE
GERADER VERBINDER MIT AUSSENGEWINDE

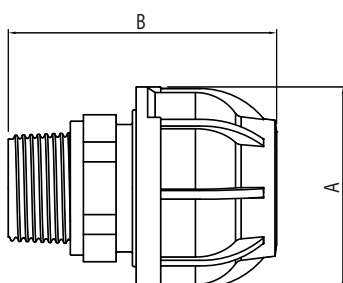


Code	Ø	A	B					(g)
A211.025.012	25x1/2"	52	66,50			5	170	55
A211.025.034	25x3/4"	52	68			5	170	57
A211.025.001	25x1"	52	71,50			5	170	60
A211.040.001	40x1"	72	88,50			1	60	132
A211.040.114	40x1 1/4"	72	90			1	60	132
A211.040.112	40x1 1/2"	72	89			1	60	135

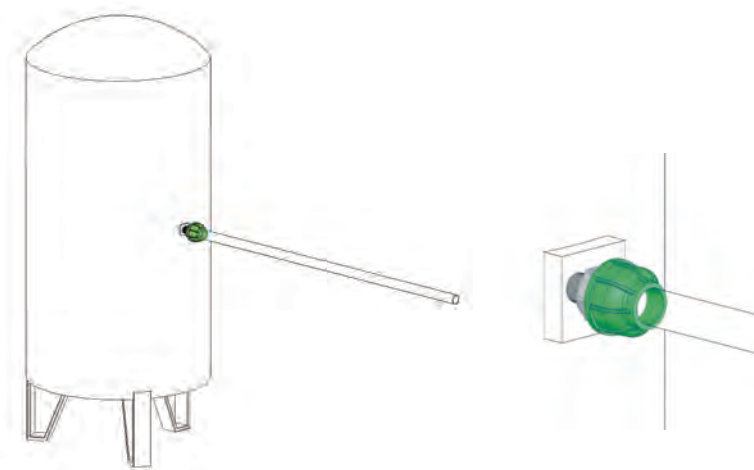


ALUMINIUM STRAIGHT MALE FITTING

RACCORDO DIRITTO MASCHIO ALLUMINIO
RACOR RECTO MACHO ALUMINIO
RACCORD DROIT MÂLE EN ALUMINIUM
GERADER VERBINDER MIT ALU AUSSENGEWINDE



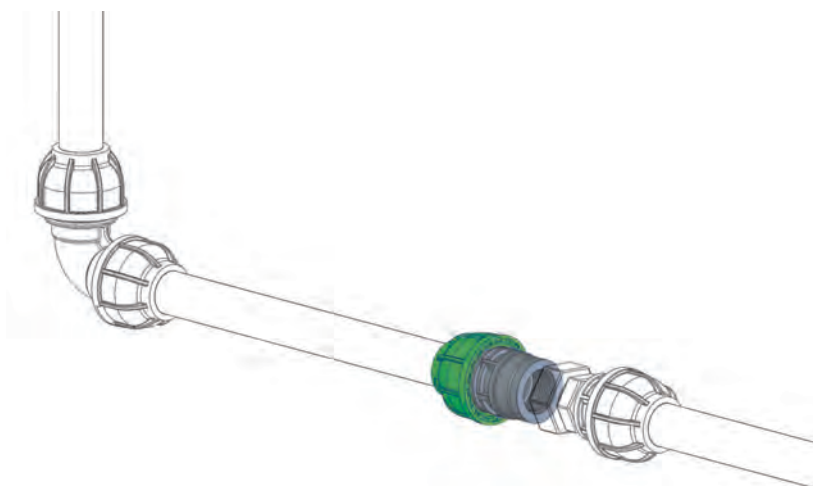
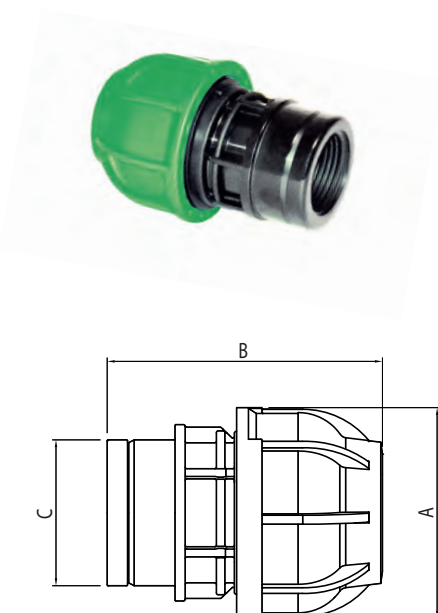
Code	Ø	A	B					(g)
A203.025.012	25x1/2"	52	66,50			5	30	91
A203.025.034	25x3/4"	52	68			5	30	91
A203.040.001	40x1"	72	88,50			1	15	202
A203.040.114	40x1 1/4"	72	90			1	15	210



STRAIGHT FEMALE FITTING

RACCORDO DIRITTO FEMMINA
RACOR RECTO HEMBRA
RACCORD DROIT FEMELLE
GERADER VERBINDER MIT INNENGEWINDE

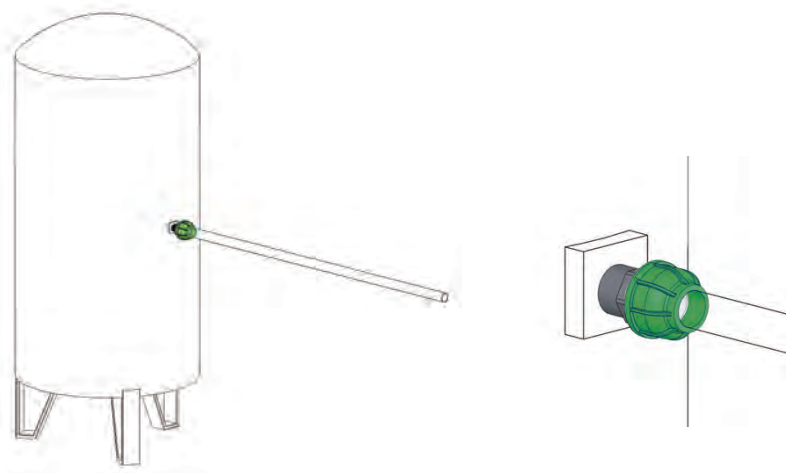
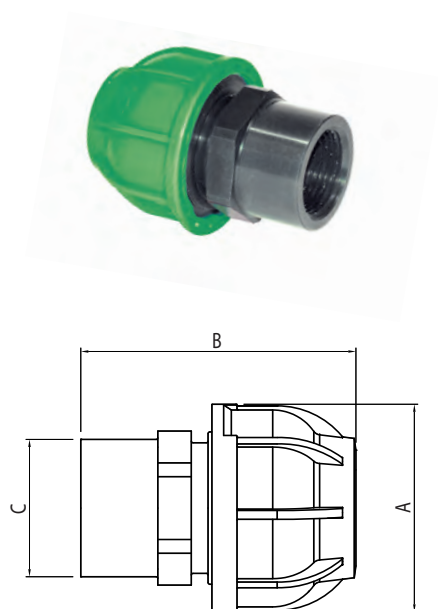
Code	Ø	A	B	C			(g)
A201.025.034	25x3/4"	52	69	37	5	140	64
A201.040.114	40x1 1/4"	72	92	54	1	50	142



ALUMINIUM STRAIGHT FEMALE FITTING

RACCORDO DIRITTO FEMMINA ALLUMINIO
RACOR RECTO HEMBRA ALUMINIO
RACCORD DROIT FEMELLE ALUMINIUM
GERADER VERBINDER MIT ALU INNENGEWINDE

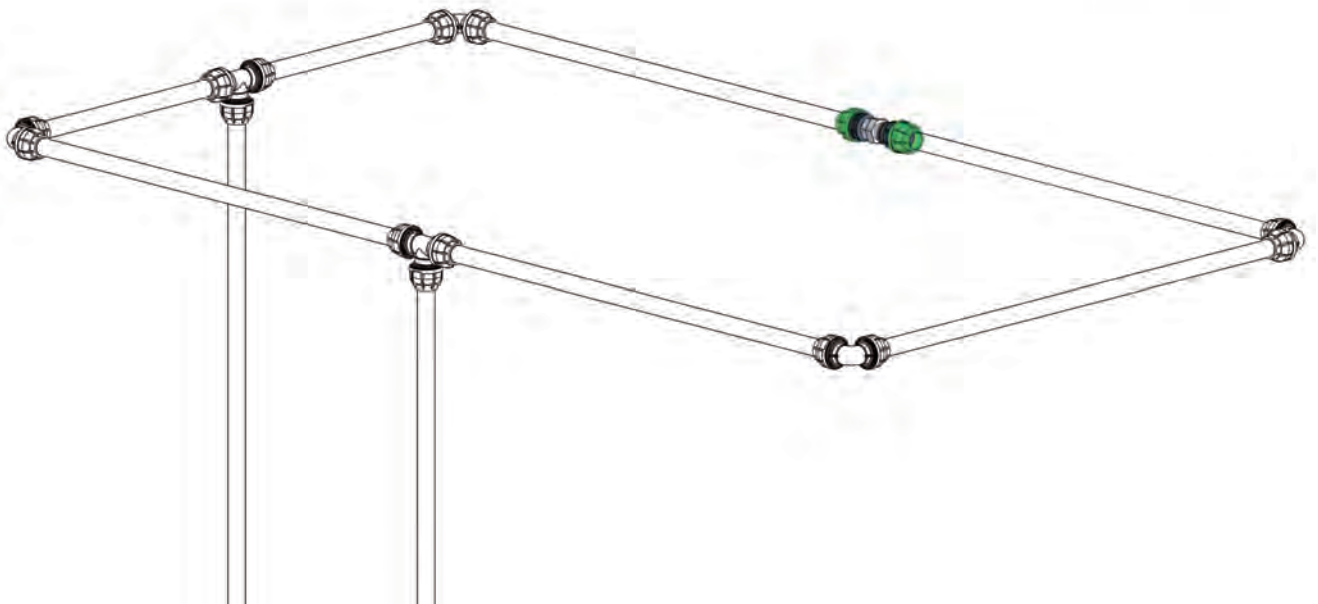
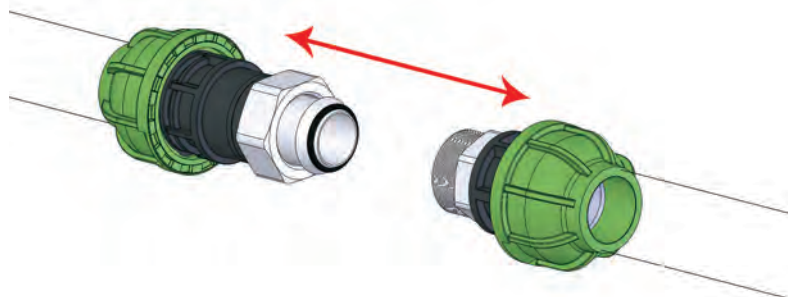
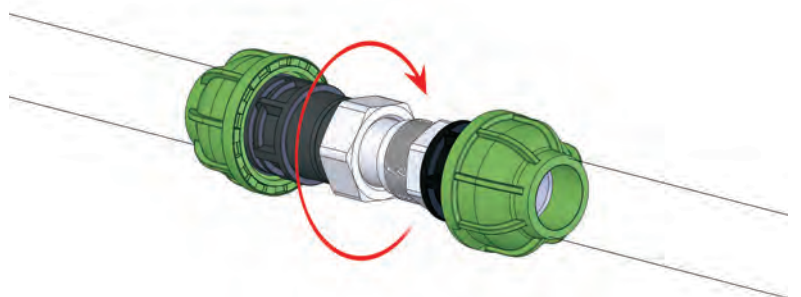
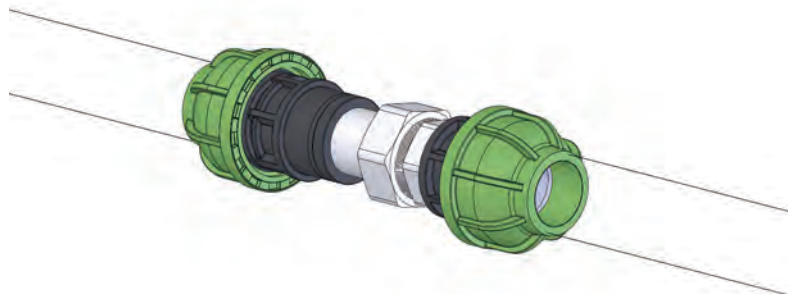
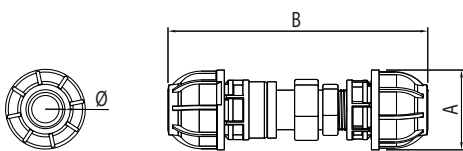
Code	Ø	A	B	C			(g)
A202.025.034	25x3/4"	52	69	37	5	30	91
A202.040.114	40x1 1/4"	72	92	54	1	15	210



STRAIGHT UNION FITTING

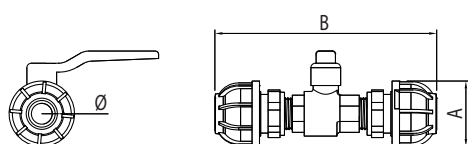
RACCORDO CON GIUNTO A 3 PEZZI
 RACOR CON JUNTA DE 3 PIEZAS
 RACCORD UNION 3 PIÈCES
 3-TEILIGER VERBINDER

Code	Ø	A	B				(g)
A220.025.034	25x3/4"	52	170		-	-	91
A220.025.001	25x1"	52	170		-	-	91
A220.040.114	40x1 1/4"	72	220		-	-	202
A220.040.112	40x1 1/2"	72	225		-	-	202

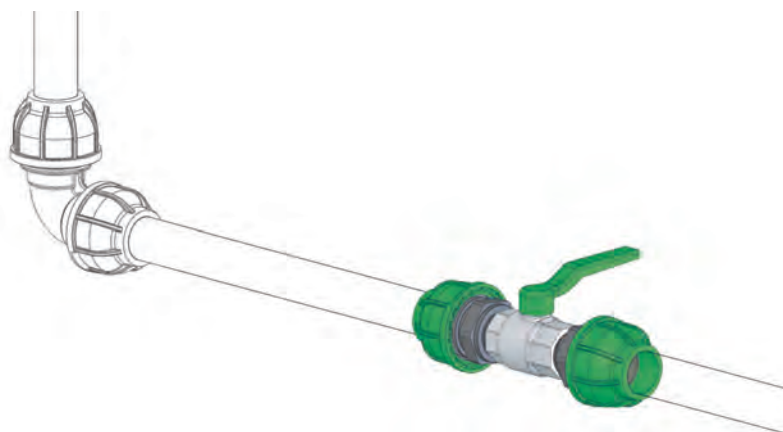


STRAIGHT UNION FITTING WITH BALL VALVE

RACCORDO DIRITTO CON VALVOLA A SFERA
 RACOR RECTO CON VÁLVULA DE BOLA
 RACCORD DROIT AVEC VANNE À BOISEAU SPHÉRIQUE
 GERADER VERBINDER MIT KUGELHAHN

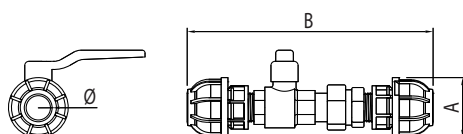


Code	Ø	A	B				(g)
A224.025.034	25x3/4"	52	170		-	-	334
A224.025.001	25x1"	52	170		-	-	334
A224.040.114	40x1 1/4"	72	225		-	-	787
A224.040.112	40x1 1/2"	72	225		-	-	787

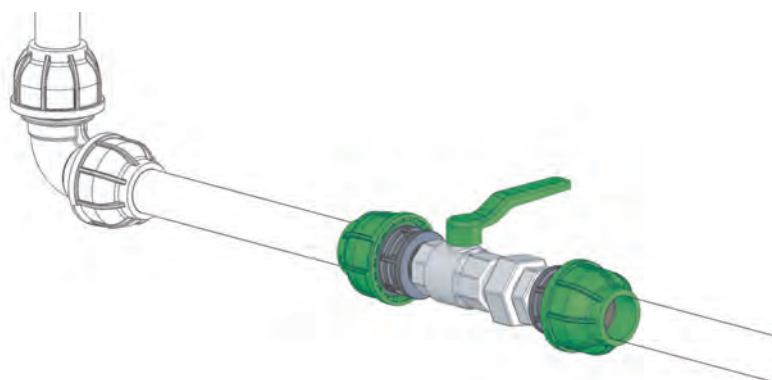


STRAIGHT UNION FITTING WITH BALL VALVE

RACCORDO A 3 PEZZI CON VALVOLA A SFERA
 RACOR DE 3 PIEZAS CON VÁLVULA DE BOLA
 RACCORD UNION 3 PIÈCES AVEC VANNE À BOISEAU SPHÉRIQUE
 3-TEILIGER VERBINDER MIT KUGELHAHN



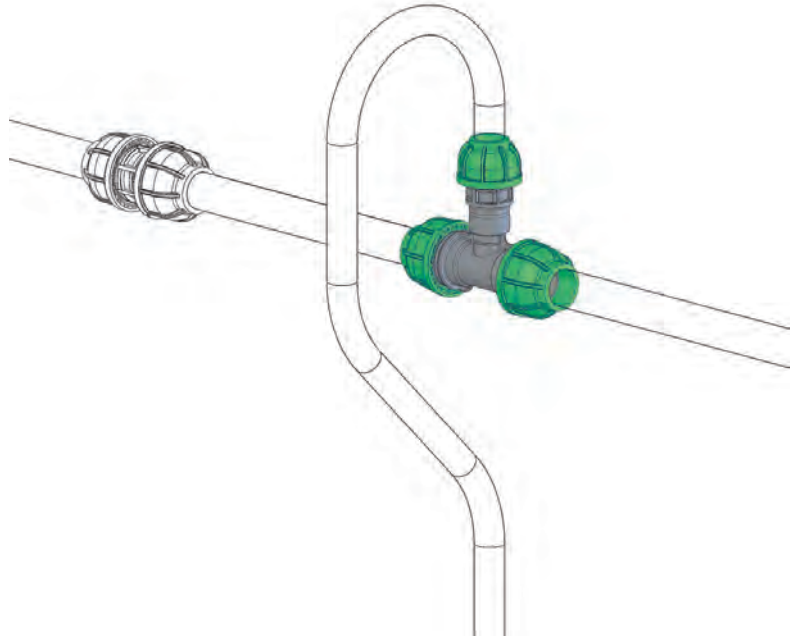
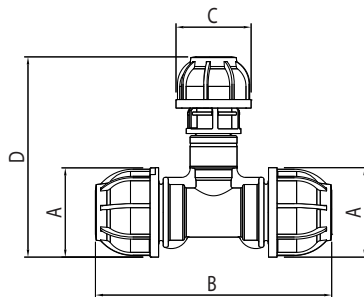
Code	Ø	A	B				(g)
A225.025.034	25x3/4"	52	205		-	-	497
A225.025.001	25x1"	52	215		-	-	497
A225.040.114	40x1 1/4"	72	275		-	-	1233
A225.040.112	40x1 1/2"	72	295		-	-	1233



REDUCING TEE FITTING

RACCORDO "T" RIDOTTO
RACOR "T" REDUCIDO
RACCORD EN "T" RÉDUIT
T-REDUZIERSTÜCK

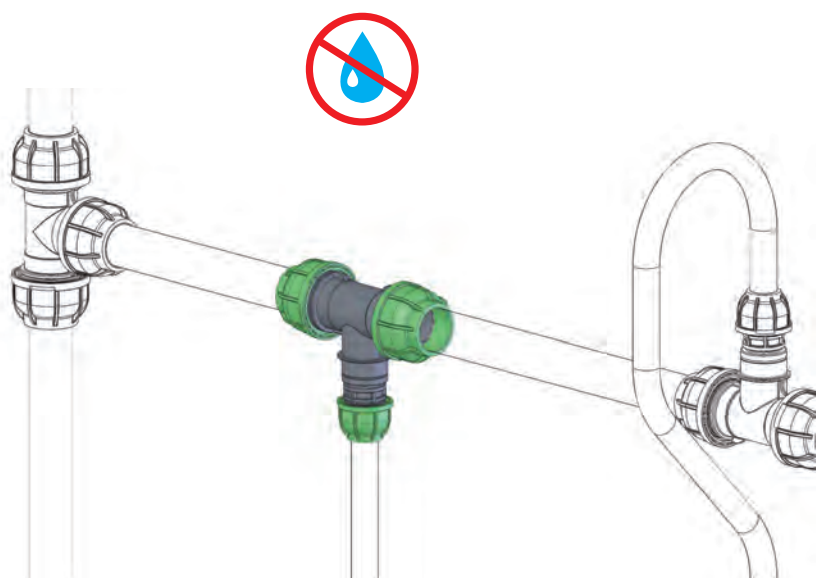
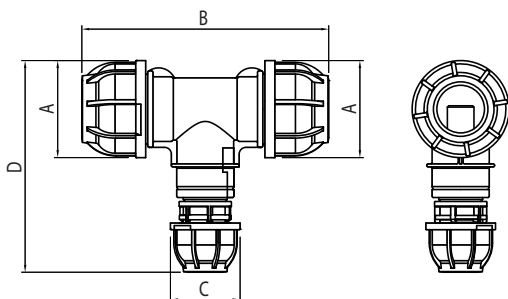
Code	Ø	A	B	C	D			(g)
A217.040.025	40-25-40	72	182	52	161	1	20	373



DRY AIR DROP TEE FITTING

RACCORDO "T" RIDOTTO PER CALATA
RACOR "T" REDUCIDO PARA BAJADA
RACCORD EN "T" POUR DESCENTE
T-REDUZIERSTÜCK MIT KONDENSAT-STOPP

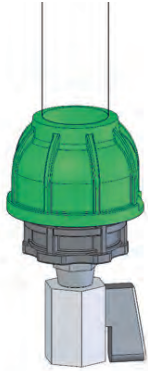
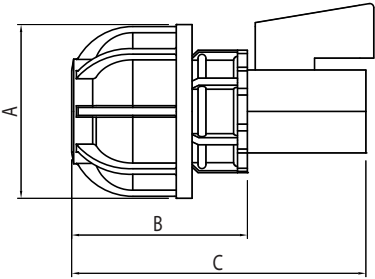
Code	Ø	A	B	C	D			(g)
A247.040.025	40-25-40	72	182	52	161	1	20	398



END CAPS WITH BALL VALVE

TAPPO CON VALVOLA A SFERA
TAPÓN CON VÁLVULA DE BOLA
BOUCHON AVEC VANNE À BOISEAU SPHÉRIQUE
ENDSTOPFEN MIT KUGELHAHN

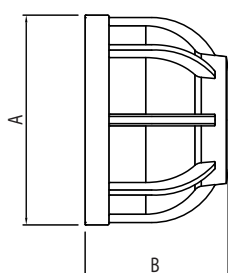
Code	Ø	A	B	C				(g)
A249.025.014	25x1/4"	52	53,50	98,50		5	-	164
A249.040.014	40x1/4"	72	68,50	113,50		1	-	230



COUPLING RING

GHIERA DI SERRAGGIO
TUERCA DE APRIETE
ÉCROU GRIFFES
SPANN-MUTTER

Code	Ø	A	B				(g)
A209.025.000	25	52	37		5	-	25
A209.040.000	40	72	47		1	-	53



RING

GRAFFETTA
GRAPA
GRIFFE
MUTTER

Code	Ø	A	B				(g)
R216.025.000	25	38,80	25,20		5	-	2
R216.040.000	40	56,30	40,50		1	-	4

